

blazed Bragg grating, the spectral response of which depends on the refractive index of the medium and a light source in order to make this light interact with the grating. Further, spectral analysis of the light which has interacted with the grating is performed, the spectrum provided by the spectral analysis is recovered, and, from the recovered spectrum, the spectral response of the grating is correlated with one value of the refractive index of the medium.

REMARKS

Favorable consideration of this application, as presently amended, is respectfully requested.

The present Preliminary Amendment is submitted to set forth new Claims 12-22 for examination. New Claims 12-22 are deemed to be self-evident from the original disclosure, and thus are not deemed to raise any issues of new matter.

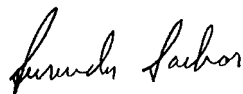
The Abstract has also been amended by the present response to be in more proper format under United States practice.

JC17 Rec'd PST/PTO 13 NOV 2001

The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

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11-13-01

IN THE CLAIMS

Claims 1-11 (Cancelled).

Claims 12-22 (New).

IN THE ABSTRACT

Please amend the Abstract on page 30 as follows:

--ABSTRACT

[Refractometer] A refractometer with blazed Bragg gratings. In order to measure the refractive index of a medium [(18)], for example a liquid or a gas, [this system comprises] the refractometer includes a waveguide [(14)] having a blazed Bragg grating [(16)], the spectral response of which depends on the refractive index of the medium[,] and a light source [(20)] in order to make this light interact with the grating[.]. Further, [means (22) for the] spectral analysis of the light which has interacted with the grating is performed, [means (24) for recovering] the spectrum provided by the spectral analysis [means] is recovered, and [means (26) to correlate], from the recovered spectrum, the spectral response of the grating is correlated with one value of the refractive index of the medium.

[Figure 3.]--